Use Attainability Analysis

for

WBID 0607 Muddy Creek

Submitted by Missouri Department of Natural Resources Staff

To Missouri Department of Natural Resources Water Protection Program

RECEIVED

Field Data Sheets for Recreational Use Stream Surveys

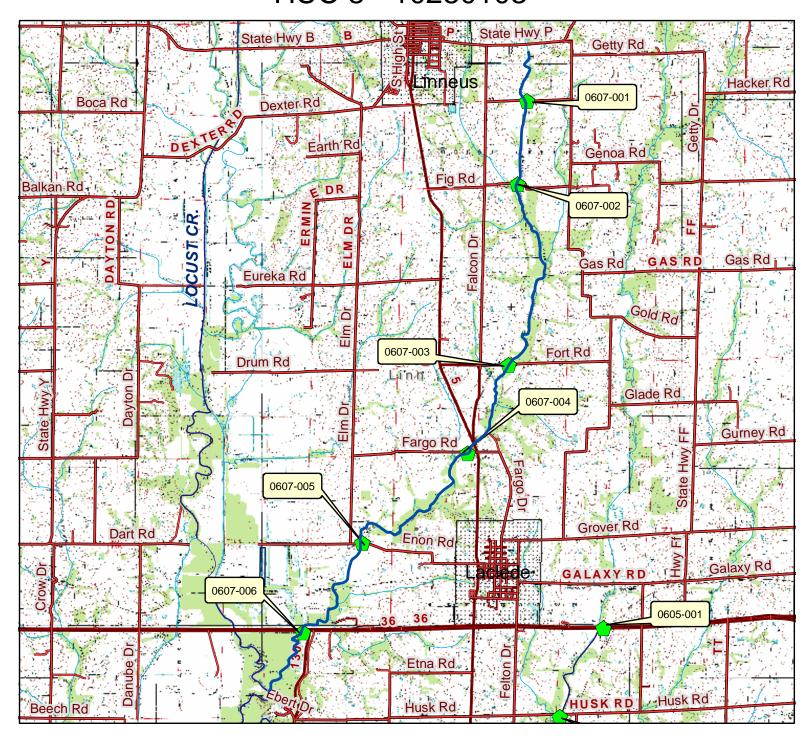
Data Sheet A - Water Body Identification

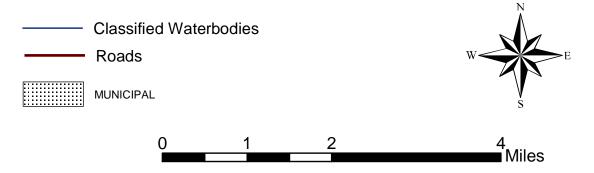
2005 JUL 14 AM 9: 18

		•	WATER PROTECTION PROCES
Water Body Name: (from USGS 7.5' quad) Muo	ldy Cree	k	
8-digit HUC: 10280	103		
Missouri WBID#: 060	7		
County: Sina			
Upstream Legal Description:		<u>. :</u>	
Downstream Legal Description:			
Upstream Coordinates:			• • • • • • • • • • • • • • • • • • • •
(UGS 84, ddd.ddddd)			
Downstream Coordinates:			
(UGS 84, ddd.ddddd)			
Discharger Facility Name(s):			
Discharger Permit Number(s):			
Number of Sites Evaluated: 5			
Name of Surveyor and Telephone Number:	Priscilla	Stotte	573-526-3406
Organization: MO DNR			
Position: ES III			
the undersigned, hereby affirm to the tasheet is true and accurate.	best of my know	ledge, that all info	rmation reported on this UAA
gned: Priscilla Stal	tte.	Date: 7	1-13-05

Date: 7-13-05

Muddy Cr. (C) #0607 Linn HUC 8 - 10280103





Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #: O	Missouri WBID#: 0607-001			scription: East of	of follow		
Site GPS Coordinates:			FOLK	Road -	00/		
Date & Time: 7-/3	Date & Time: 7-13-05 /2:10			Facility Name:			
Personnel: P. Stotts			Permit Number:				
Current Weather Conditi	ons: Clean	,	Weather Conditi	ons for Past 7 days: Fa	in - Dry		
Photo Ids: Upstream:		nstream: /	49 Other				
Uses Observed*:	Stream	alm	set Dry	-			
Swimming	Skin diving	☐ SC	JBA diving	Tubing	☐ Water skiing		
☐ Wind surfing	☐ Kayaking	☐ Bo	ating	Wading	Rafting		
Hunting	Trapping	Fisi	hing	None of the above	Other:		
Surrounding Condition	18*: (Mark all that p	romote or im	pede recreational v	nses. Attach photos of evide	nce or unusual		
City/county parks	☐ Playgrounds	☐ MDC co	nservation lands	Urban areas			
☐ Boating accesses		ETI Nt. dan 1		L Otoan areas	☐ Campgrounds		
	State parks	☐ National	forests	Nature trails	☐ Campgrounds ☐ Stairs/walkway		
☐ No trespass sign	☐ State parks	Steep ske		 			
	Fence			Nature trails	Stairs/walkway		
	Fence	Steep sk	opes Oock/platform	Nature trails Other: Cattle	Stairs/walkway Cross bridge. RV/ATV Tracks		
Evidence of Human Us	Fence	Steep sk	ppes	Nature trails Other: Cattle	Stairs/walkway Cross bridge		

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Data Sheet B - Site Characterization

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Stream Morphology Upstream View P		sions:				
Riffle Width (f	:): . I	Length (ft):	Avg. Depth (f	it):	Max. Depth (ft):	
Run Width (f	1): 5/10 I	ength (ft): /00	+ Avg. Depth (f	ft): 1/0	Max. Depth (ft):	3/16
Pooi Width (f		ength (ft):	Avg. Depth (Max. Depth (ft):	
☐ Flow Present?	Yes 🔀 Y	10 little	Estimated (ft ³	/sec): ~	O. 1 CF	5
Downstream View	v Physical Din	nensions:				
Riffle Width (f		Length (ft):	Avg. Depth (f	ft):	Max. Depth (ft):	
Run Width (f	t):]	Length (ft): 30	Avg. Depth (i	ft): 2/10	Max. Depth (ft):	7/0
Pool Width (f	i):]	Length (ft):	Avg. Depth (f		Max. Depth (ft):	
∏ Flow Present?	¥ Yes □	No	Estimated (ft ³	/sec): -	< 0.1 C.F.S	5
Substrate*: (These value % Cobble	lues should add u % Gra	•	Sand /O	% Silt	66% Mud/Clay	% Bedrock
Aquatic Vegetation	f: (note amount o	f vegetation or algal	growth at the asses	ssment site)		
_	10 (105	e growin	18 4190	r!		
Water Characterist	ics*: (Mark all th	iat apply.)				
Odor:	Sewage	☐ Musky ☐] Chemical	None None	Other:	
Color:	🔀 Clear	Green [] Gray	☐ Milky	Other:	
Bottom Deposit:	☐ Sludge	Solids	Fine sediments	☐ None	Other:	
Surface Deposit:	Oil	Scum	Foam	X None	Other:	
Comments: Please a *This information is not comprehensive understar	to be used solely f	or removal of a recre	eational use design	ation but rath	ner is to provide a more	
decision on the recreation						
I, the undersigned, datasheet is true an	•	to the best of m	y knowledge, tl	hat all info	ormation reported o	on this UAA
Signed:	illa x	Statta	Date:	7-18	-05	
Organization: Misso	uri Department	of Natural Resou	urces Position	: <u>Environn</u>	nental Specialist	



Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID#: O	601-002	Site Location Do	escription: 4/2 /	2/		
Site GPS Coordinates:			002 Fig Road			
Date & Time: 7-/	3-05 12:	スち Facility Name:				
Personnel: P. Stotts		Permit Number:				
Current Weather Condition	277			ir-Dref		
Photo Ids: Upstream: /	50 Downstre	am: /5/ Othe				
		7.27				
es Observed*:				,		
Swimming	Skin diving	SCUBA diving	☐ Tubing	☐ Water skiing		
☐ Wind surfing	☐ Kayaking	Boating	☐ Wading	Rafting		
Hunting	Trapping	Fishing	☑ None of the above	Other:		
Describe: (include numb	er of individuals recreati	ig, frequency of use, photo	-documentation of evidence	of recreational uses, etc.,		
irrounding Condition			uses. Attach photos of evide	.`.		
irrounding Condition	ns*: (Mark all that prom					
urrounding Condition	ns*: (Mark all that prom	ote or impede recreational	uses. Attach photos of evide	nce or unusual		
irrounding Condition ms of interest.) City/county parks	ns*: (Mark all that prom Playgrounds	ote or impede recreational MDC conservation lands	uses. Attach photos of evide	nce or unusual		
irrounding Condition ms of interest.) City/county parks Boating accesses No trespass sign	ns*: (Mark all that prom Playgrounds State parks Fence	ote or impede recreational MDC conservation lands National forests	uses. Attach photos of evide Urban areas Nature trails	nce or unusual		
irrounding Condition ms of interest.) City/county parks Boating accesses	ns*: (Mark all that prom Playgrounds State parks Fence	ote or impede recreational MDC conservation lands National forests	uses. Attach photos of evide Urban areas Nature trails	nce or unusual Campgrounds		
rrounding Condition ms of interest.) City/county parks Boating accesses No trespass sign	ns*: (Mark all that prom Playgrounds State parks Fence	ote or impede recreational MDC conservation lands National forests Steep slopes	uses. Attach photos of evide Urban areas Nature trails Other:	nce or unusual Campgrounds Stairs/walkway		

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Data Sheet B - Site Characterization

Page Two - WBID # 607 2

Stream Morphology Upstream View F		eiane.				
Riffle Width (ength (ft):	Avg. Depth (ft):	Max. Depth (ft)	<u> </u>
Run Width (t):	ength (ft): 57	Avg. Depth (ft): 4/10	Max. Depth (ft)	
Pool Width (it): L	ength (ft):	Avg. Depth (ft):	Max. Depth (ft)	
#Flow Present?	☑-Yes □ N	o Still wat	 			
Dawnstusan Vis			<u> </u>		_	
Downstream View		ength (ft):	Ann Donale (ex.	Mary David (6)	
	<u> </u>		Avg. Depth (· · · · · · · · · · · · · · · · · · ·	Max. Depth (ft):	· · · ·
Run Width (<u> </u>	ength (ft): 2	O Avg. Depth (ft): 1/10	Max. Depth (ft):	110
Pool Width (<u> </u>	ength (ft):	Avg. Depth (ft):	Max. Depth (ft):	· · · · · · · · · · · · · · · · · · ·
DFlow Present?	☑ Xes □ N	lo .	Estimated (fi	³/sec): <	0.2 CF5	
Substrate*: (These va			··· <u> </u>			
% Cobble	% Grav	/el // %	Sand	5 % Silt 75	% Mud/Clay	5 % Bedrock
Water Characterist	<u> </u>		- Ulgae	along	banks	
Odor:	☐ Sewage [Musky [Chemical	None	Other:	
Color:	Clear [Green [] Gray	Milky	Other:	
Bottom Deposit:	Sludge [Solids [Fine sediments	∠ None	Other:	
Surface Deposit:	∐ oii	Scum [Foam	∠ None	Other:	
*This information is not comprehensive understandecision on the recreation	to be used solely fo ding of water cond	r removal of a recr litions. Consequent	eational use design tly, this information	ation but rather is t	to provide a more directly influence	
I, the undersigned, l	hereby affirm t	o the best of m	y knowledge, tl	hat all informa	tion reported	on this UAA
datasheet is true an	d accurate.	1				
Signed: <u>Tris</u>	cilla) X	tetto	Date:	7-13	3-05	
Organization: Misso	ıri Department o	of Natural Resou	urces Position	: Environmenta	l Specialist	





Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #: 0(007 - 003			Site Location Description:		
Site GPS Coordinates:			70r+	NORY	
Date & Time: 7-1	3-05 /2:	48	Facility Name:		
Personnel: P. Stotts					<u>.</u>
Current Weather Conditi	ons: Clear		Weather Conditi	ons for Past 7 days:	- Fair - Dry
Photo Ids: Upstream:		stream: /	5'd Other		lonal
<u> </u>	/		,	on wo	er Siell
ses Observed*:	<u> </u>		. .	· , 	
Swimming	Skin diving	□ sc	UBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	Boa	ating	Wading	Rafting
Hunting	Trapping	☐ Fisi	hing	None of the above	Other:
Describe: (include numb	er of individuals recre	eating, frequ	ency of use, photo-	documentation of evidence	e of recreational uses, etc.)
urrounding Condition				documentation of evidence	
urrounding Condition	ns*: (Mark all that pr	romote or im	pede recreational t	ises. Attach photos of evide	ence or unusuai
urrounding Condition		romote or im		uses. Attach photos of evide	ence or unusual
urrounding Condition	ns*: (Mark all that pr	romote or im	pede recreational to enservation lands	ises. Attach photos of evide	ence or unusual
urrounding Conditioners of interest.)	ns*: (Mark all that pr	romote or im	pede recreational to enservation lands	uses. Attach photos of evide	ence or unusual
urrounding Condition ms of interest.) City/county parks Boating accesses	ns*: (Mark all that pr	romote or im MDC co	pede recreational to enservation lands	uses. Attach photos of evide	ence or unusual
urrounding Condition ons of interest.) City/county parks Boating accesses No trespass sign	ns*: (Mark all that pr	omote or im MDC co National Steep slo	pede recreational to enservation lands	uses. Attach photos of evide	ence or unusual Campgrounds Stairs/walkway RV/ATV Tracks
urrounding Conditions of interest.) City/county parks Boating accesses No trespass sign	ns*: (Mark all that pr Playgrounds State parks Fence	omote or im MDC co National	pede recreational to enservation lands I forests opes	uses. Attach photos of evidence Urban areas Nature trails Other:	ence or unusual Campgrounds Stairs/walkway

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Data Sheet B - Site Characterization

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Stream Morphology Upstream View P		ioner				
Riffle Width (f		ngth (ft):	Avg, Depth (f	it):	Max. Depth (ft):	
Run Width (f	<u> </u>	ngth (ft): 7,5			Max. Depth (ft):	8/10
Pool Width (f	··· ' /	ngth (ft):	Avg. Depth (f		Max. Depth (ft):	<u>///</u>
Flow Present?	·	•				
Priow Fresent:	[] 16 [] [N	Still wa	Estimated (ft ³	/sec).		
Downstream View	v Physical Dime	ensions:				
Riffle Width (f	t): Le	ength (ft):	Avg. Depth (1	ft):	Max. Depth (ft):	
☐ Run Width (f	t): /O Le	ength (ft): 100	+ Avg. Depth (1	ft): 5/10	Max. Depth (ft):	17/0_
Pool Width (f	t): Le	ength (ft):	Avg. Depth (i	- /	Max. Depth (ft):	
Flow Present?	☑ Yes □ No		Estimated (ft ³	/sec):	FS	
					<u>,</u>	
Substrate*: (These va	lues should add up	to 100%.)			·	
% Cobble	% Grav	el 200 %	Sand 10	% Silt 70 9	% Mud/Clay	% Bedrock
Water Characterist		ing alg	<i></i> - (
Odor:	Sewage [Musky [Chemical	None	Other:	
Color:	[X]Clear ← → [X.Green □] Gray	Milky	Other:	
Bottom Deposit:	Sludge [Solids	Fine sediments	₩ None	Other:	
Surface Deposit:	Oil [Scum [] Foam	W None	Other:	
*This information is not comprehensive understated decision on the recreation. I, the undersigned, datasheet is true ar	to be used solely fonding of water cond n use analysis but m hereby affirm t	r removal of a recre litions. Consequent hay point to condition	cational use design ly, this information ons that need furth	nation but rather is to in is not intended to her analysis or that o	to provide a more directly influence a effect another use.	
	cilla S	tatte	Date:	7-13-0	5	
Organization: Misso	<u>uri Department</u>	of Natural Resou	urces Position	n: <u>Environmenta</u>	l Specialist	





Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

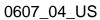
Missouri WBID #:	0607 - 0	004	Site Location	Description: 00 4			
Site GPS Coordinates:				Fargo t	Rod		
Date & Time:	Date & Time: 7-13-05 1:15			Facility Name:			
Personnel: P. Stotts							
Current Weather Condit	ions: (Opan)		Weather Cond	litions for Past 7 days:	Fair - Dry		
Photo Ids: Upstream:		istream:	156 0	her:			
<u></u>					-		
ises Observed*:	1						
Swimming	Skin diving	☐ SC	UBA diving	Tubing	Water skiing		
☐ Wind surfing	Kayaking	Bos	sting	Wading	Rafting		
Hunting	☐ Trapping	☐ Fisl	bing	None of the abo	ve Dther:		
Describe: (include num	er of individuals recr	eating, freque	ency of use, pho	to-docurtientation of evid	ence of recreational uses, etc.)		
Describe: (include numbers) Surrounding Conditionates of interest.)							
Surrounding Conditio		romote or im		al uses. Attach photos of o			
Surrounding Conditionems of interest.)	ns*: (Mark all that p	romote or im	pede recreations	il uses. Attach photos of o	evidence or unusual		
Surrounding Conditionems of interest.)	ns*: (Mark all that pr	romote or im	pede recreationa nservation lands forests	al uses. Attach photos of o	evidence or unusual		
Surrounding Conditionems of interest.) City/county parks Boating accesses	ns*: (Mark all that property of the parks of	romote or im MDC co	pede recreationa nservation lands forests	al uses. Attach photos of o	evidence or unusual		
Surrounding Condition tems of interest.) City/county parks Boating accesses No trespass sign	ns*: (Mark all that property of the parks of	romote or im MDC co National Steep slo	pede recreationa nservation lands forests	al uses. Attach photos of o	Campgrounds		
Surrounding Conditioners of interest.) City/county parks Boating accesses No trespass sign	ns*: (Mark all that property of the parks of	romote or im MDC co National Steep slo	pede recreationa nservation lands forests opes	al uses. Attach photos of o	cvidence or unusual Campgrounds Stairs/walkway ring RV/ATV Tracks		

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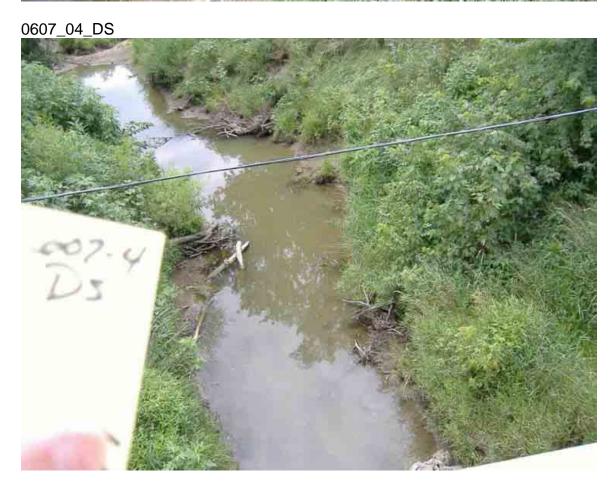
Data Sheet B - Site Characterization

Page Two – WBID #<u>60</u>:2-4

Riffle Wid	th (ft):	Length (ft):		Avg. Depth (ft):	Max. Depth (ft):
Run Wid	th (ft):	Length (ft):	50	Avg. Depth (ft): 6/10	Max. Depth (ft): //
	th (ft):	Length (ft):		Avg. Depth (ft):	Max. Depth (ft):
Flow Pres	sent? 🔼 Yes	□No		Estimated (ft ³ /	sec): 2C	FS	
Downstream '	View Physic	al Dimensions:					
Riffle Wid	ith (ft):	Length (ft):		Avg. Depth (ft		Max. Depth (
Run Wic	ith (ft): 10	Length (ft):	100	Avg. Depth (ft): 5/10	Max, Depth ((ft): 1/10
Pool Wid	ith (ft):	Length (ft):		Avg. Depth (ft):	Max. Depth ((ft):
Thow Pres	sent? LYes	☐ No		Estimated (ft ³ /	sec): <	2 CFS	
		U	0	swing	9		
		uk all that apply.)					
	eristics*: (Ma	urk all that apply.)		Chemical	None	Other:	
Odor:	eristics*: (Ma Sewag	urk all that apply.) te		Chemical Gray	None	Other:	
Odor: Color: Bottom Deposi	eristics*: (Ma Sewag Clear Sludge	urk all that apply.) te		Chemical Gray Fine sediments Foam	None Milky None None	Other: Other: Other: Other:	
Vater Characte Odor: Color: Bottom Deposi Surface Deposi Comments: Plea	eristics*: (Ma Sewag Clear Clear Cloil ase attach ad s not to be used erstanding of weation use anal	ark all that apply.) The Musky Green Solids Scum ditional comment solely for removal after conditions. Conjust but may point to	ts (included of a recreation sequently condition of the c	Chemical Gray Fine sediments Foam ling information tional use design to this information to the theorem the the theorem the theorem the theorem the theorem the theorem the th	None Milky None None n from integration but rather is not intender analysis or to	Other: Other: Other: Other: other: other: arviews) to this r is to provide a med to directly influent that effect another	ore ence a
Ater Characte Odor: Color: Bottom Deposi Surface Deposi omments: Plea This information is comprehensive und coision on the recr the undersign atasheet is tru igned:	eristics*: (Ma	ditional comments solely for removal states conditions. Coysis but may point to affirm to the besate.	ts (included a recreation of a recreation sequently of condition set of my	Chemical Gray Fine sediments Foam ling information tional use design this information to that need further knowledge, the	None Milky None None None non from interestion but rather is not intended at all informat all in	Other: Other: Other: Other: Other: rviews) to this r is to provide a med to directly influent that effect another mation report	ore ence a use. ed on this UAA







Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

1	issouri WBID #: 607 - 005			Site Location Description:				
Site GPS Coordinates:	Site GPS Coordinates:			Enon Road 005 Facility Name:				
Date & Time: 7-13-								
Personnel: P. Storts	 ;	·	Permit Number:	<u></u>	·			
Current Weather Condit	ions: Clear		Weather Condi	tions for Past 7 days:	2 - 5			
Photo Ids: Upstream:		/nstream:	S Othe		Fair - Dry			
	,		<u> </u>	-	·			
es Observed*:								
Swimming	Skin diving		JBA diving	Tubing	☐ Water skiing			
Wind surfing	☐ Kayaking	☐ Boa	iting	☐ Wading	Rafting			
Hunting	Trapping	☐ Fish	ning	☑ None of the above	Other:			
Describe. (morade num)	er of individuals fee:	reating, freque	ency of use, photo	-documentation of evidence	of recreational uses, etc.			
rrounding Condition								
rrounding Condition	15*: (Mark all that p	romote or imp	ede recreational u	ises. Attach photos of evide				
rrounding Condition ns of interest.) City/county parks	18*: (Mark all that p	romote or imp	ede recreational u					
rrounding Condition ns of interest.) City/county parks Boating accesses	18*: (Mark all that p Playgrounds State parks	romote or imp MDC com	nede recreational u uservation lands forests	ises. Attach photos of evide	nce or unusual			
rrounding Condition ns of interest.) City/county parks	18*: (Mark all that p	romote or imp	nede recreational u uservation lands forests	ises. Attach photos of evide	nce or unusual			
rrounding Condition ns of interest.) City/county parks Boating accesses	18*: (Mark all that p Playgrounds State parks Fence	romote or imp MDC com	nede recreational u uservation lands forests	uses. Attach photos of evide Urban areas Nature trails	nce or unusual			
rrounding Conditions of interest.) City/county parks Boating accesses No trespass sign	18*: (Mark all that p Playgrounds State parks Fence	romote or imp MDC cor National Steep slop	nede recreational u uservation lands forests	uses. Attach photos of evide Urban areas Nature trails	nce or unusual Campgrounds Stairs/walkway			
rrounding Condition ns of interest.) City/county parks Boating accesses No trespass sign idence of Human Us	IS*: (Mark all that p Playgrounds State parks Fence e*:	romote or imp MDC com National Steep slop	pede recreational unservation lands forests	uses. Attach photos of evide Urban areas Nature trails Other:	nce or unusual			

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Page Two - WBID #602.-05 Data Sheet B - Site Characterization

Stream Mor		cal Dimensions:	·		
Riffle	Width (ft):	Length (ft):	Avg, Depth (f	 ft):	Max. Depth (ft):
Run	Width (ft):	Length (ft):	Avg. Depth (I	ft):	Max. Depth (ft):
DAFool	Width (ft):	/(c Length (ft):	100 4 Avg. Depth (ft): /	Max. Depth (ft): Conf
7 Flow	Present?	Yes No Stans	lend Estimated (ft ³	/sec):	
			ling Estimated (ft)	Jam	
Riffle	Width (ft):	Length (ft):	Avg. Depth (1	ft):	Max. Depth (ft):
Run	Width (ft):	Length (ft):	Avg. Depth (i	ft):	Max. Depth (ft):
Pool	Width (ft):	2 2 Length (ft):	/ Avg. Depth (ft):~ 2	/ Max. Depth (ft) 3 /
☐ Flow	Present?	Yes No Still	 Estimated (ft² 	/sec):	
Aquatic Veg	etation*: (no two Cres of Grown	te amount of vegetation or y algas 30%	% Sand algal growth at the assess	% Silt	/OC% Mud/Clay % Bedroo
Odor:		(Mark all that apply.) wage Musky	Chemical	None	Other:
Color:		ear Green	Gray	Milky	Other:
Bottom De		udge Solids	Fine sediments	None	Other: Can not sac
Surface De	`		Foam	None	Other:
*This informat comprehensive decision on the I, the under	ion is not to be a understanding of recreation use a	used solely for removal of a of water conditions. Conse analysis but may point to co	a recreational use design equently, this information anditions that need furth	ation but rati n is not inten er analysis on	ded to directly influence a
Signed:	procelle	V Statts	Date:	7-12	2-05

Organization: Missouri Department of Natural Resources Position: Environmental Specialist

